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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/764,770	01/26/2004	David Presley Wallace	72214	9761	
<sup>27975</sup> ALLEN, DYEI	7590 09/14/2007 , DOPPELT, MILBRATH & GILCHRIST P.A.		EXAMINER		
1401 CITRUS	1401 CITRUS CENTER 255 SOUTH ORANGE AVENUE			LOUIE, OSCAR A	
P.O. BOX 3791 ORLANDO, FL 32802-3791			ART UNIT	PAPER NUMBER	
			2136		
			NOTIFICATION DATE	DELIVERY MODE	
			09/14/2007	ELECTRONIC	

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

creganoa@addmg.com



	Application No.	Applicant(s)				
	10/764,770	WALLACE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Oscar A. Louie	2136				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>26 January 2004</u> .						
2a) ☐ This action is <b>FINAL</b> . 2b) ☒ This						
3) Since this application is in condition for allowar	)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on 20 July 2004 is/are: a)	oxtimes accepted or b) $oxtimes$ objected to t	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attach went(a)						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:						

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# **DETAILED ACTION**

This first non-final action is in response to the original filing of 01/26/2004. Claims 1-9 are pending and have been considered as follows.

#### Examiner's Note

The examiner notes the applicant's inclusion of, "For use with an electronic signal processing apparatus containing a security key memory which stores a security key that enables a user to operate said electronic signal processing apparatus," in Claims 1 & 5. It is noted that this recitation does not provide further limitation to these claims and appears to be an intended use.

## Specification

- 1. The disclosure is objected to because of the following informalities:
  - Page 2 line 7 of the specification recites the term "through" which should be

"...though..."

Appropriate correction is required.

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## Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 5-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

4. The term "operative" in claims 5-8 is a relative term which renders the claim indefinite.

The term "operative" is not defined by the claim, the specification does not provide a standard

for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably

apprised of the scope of the invention. The examiner notes that the usage of the term "operative"

is similar to that of "capable" or "operable" and does not define the scope of the invention

clearly.

5. The examiner notes the usage of the term "arrangement" in claims 5 and 6. It is noted

that the two claims 5 & 6 appear to be a system and an apparatus respectively. However, the

usage of the term "arrangement" in both claims makes them indefinite. One of ordinary skill in

the art may not be able to discern which claims are a system or an apparatus, since it appears that

an "arrangement" may be either one or both.

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# Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by <u>Sutherland</u> (US-6292898-B1).

#### Claim 1:

<u>Sutherland</u> discloses a method of preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory comprising,

- "monitoring the integrity of said housing" (i.e. "A detector 303 is adapted, as described in more detail below, to detect an intrusion into the secure environment") [column 5 lines 52-53];
- "detecting said compromise in the integrity of said housing" (i.e. "detect an intrusion into the secure environment") [column 5 lines 52-53];
- "changing the contents of said security key memory so as to effectively remove said security key from said security key memory" (i.e. "electrical current is either supplied from a reference voltage generator 305 to the volatile data storage device 301 or sourced to the reference voltage generator 305 from the volatile data storage device 301 to effect erasure of data stored in the volatile data storage device") [column 5 lines 59-63].

Claim 2:

<u>Sutherland</u> discloses a method of preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory, as in Claim 1 above, further comprising,

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- "storing, in a single-bit storage device, a single bit representative of a prescribed power supply state of said security key memory" (i.e. "volatile data storage devices typically require maintenance of two voltage levels (data retention voltages) within the volatile data storage device to enable one of two distinct values to be stored in each memory cell of the volatile data storage device, data being stored in the volatile data storage device by selectively storing one of the two distinct values in particular memory cells") [column 6 lines 9-16];

"changing the bit state, of said single-bit storage device in response to said compromise in the integrity of said housing for said memory" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22].

Claim 3:

<u>Sutherland</u> discloses a method of preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory, as in Claim 1 above, further comprising,

- "detecting a change in the bit state of said single-bit storage device" (i.e. "When the voltages at the designated input nodes become equal, the data retention voltages in the volatile data storage device 301 become equal as well") [column 6 lines 25-27];

- "changing the contents of said security key memory so as to effectively remove said security key from said security key memory" (i.e. "Since the data retention voltages are equal, each memory cell of the volatile data storage device 301 stores the same value and, thus, all of the data stored in the volatile data storage device 301 is effectively erased") [column 6 lines 27-31].

Claim 4:

<u>Sutherland</u> discloses a method of preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory, as in Claim 1 above, further comprising,

"coupling a switch, having a closure state dependent upon the integrity of said housing, to said single-bit storage device" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22];

- "in response to said compromise in the integrity of said housing, operating said switch, so as to change the bit state of said single-bit storage device" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22].

### Claim 5:

<u>Sutherland</u> discloses an arrangement for preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory comprising,

- "a single-bit storage device which is coupled to store a single bit representative of a prescribed power supply state of said security key memory" (i.e. "volatile data storage devices typically require maintenance of two voltage levels (data retention voltages) within the volatile data storage device to enable one of two distinct values to be stored in each memory cell of the volatile data storage device, data being stored in the volatile data storage device by selectively storing one of the two distinct values in particular memory cells") [column 6 lines 9-16];
- "a switch, which is coupled to said single-bit storage device, and is operative to change the bit state thereof in response to said compromise in the integrity of said housing for said memory" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22];

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- "a control circuit, which is operative, in response to said change in the bit state of said single-bit storage device, to change the contents of said security key memory so as to effectively remove said security key from said security key memory" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22].

## Claim 6:

<u>Sutherland</u> discloses an arrangement for preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory comprising,

- "an intrusion detection circuit that is adapted to monitor the integrity of said housing"

  (i.e. "A detector 303 is adapted, as described in more detail below, to detect an intrusion into the secure environment") [column 5 lines 52-53];
- "a memory contents modification circuit that is operative, in response to said intrusion detection circuit detecting a compromise in the integrity of said housing, to modify the contents of said security key memory and thereby effectively remove said security key from said security key memory" (i.e. "electrical current is either supplied from a reference voltage generator 305 to the volatile data storage device 301 or sourced to the reference voltage generator 305 from the volatile data storage device 301 to effect erasure of data stored in the volatile data storage device") [column 5 lines 59-63].

Claim 7:

<u>Sutherland</u> discloses an arrangement for preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory, as in Claim 6 above, further comprising,

- "said intrusion detection circuit includes a single-bit storage device that is operative to store a single bit representative of a prescribed power supply state of said security key memory" (i.e. "volatile data storage devices typically require maintenance of two voltage levels (data retention voltages) within the volatile data storage device to enable one of two distinct values to be stored in each memory cell of the volatile data storage device, data being stored in the volatile data storage device by selectively storing one of the two distinct values in particular memory cells") [column 6 lines 9-16];
- "a switch that is operative to change the bit state of said single-bit storage device in response to said compromise in the integrity of said housing for said memory" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22].

Claim 8:

<u>Sutherland</u> discloses an arrangement for preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory, as in Claim 7 above, further comprising,

- "said memory contents modification circuit is operative, in response to a change in the bit state of said single-bit storage device, to change the contents of said security key memory so as to effectively remove said security key from said security key memory" (i.e. "Since the data retention voltages are equal, each memory cell of the volatile data storage device 301 stores the same value and, thus, all of the data stored in the volatile data storage device 301 is effectively erased") [column 6 lines 27-31].

Claim 9

<u>Sutherland</u> discloses an arrangement for preventing access to said security key in the event of a compromise in the integrity of a housing for said security key memory, as in Claim 8 above, further comprising,

- "said switch has a closure state dependent upon the integrity of said housing" (i.e. "the clamp 304 supplies current to or from the reference voltage generator 305 from or to, respectively, one or more such designated input nodes of the volatile data storage device 301 so that the voltages at the designated input nodes become equal") [column 6 lines 18-22].

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#### Conclusion

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Oscar Louie whose telephone number is 571-270-1684. The examiner can normally be reached Monday through Thursday from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nasser Moazzami, can be reached at 571-272-4195. The fax phone number for Formal or Official faxes to Technology Center 2100 is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OAL 09/07/2007

Nasser Moazzami Supervisory Patent Examiner

9,7,07